

TABLE OF CONTENTS

FOREWORD	9
ACKNOWLEDGEMENTS	10
PLAN	11
CHAPTER I	
Generalities on the <i>Chiasognathinae</i> .	14
1. Biometry and general aspect of the integument.	14
2. Biology.	14
3. Paleontology.	16
CHAPTER II	
Historical account of the classification of the <i>Chiasognathinae</i> .	20
1. The nomenclature.	20
2. History.	21
CHAPTER III	
Morphology and anatomy of <i>Chiasognathinae</i> .	
1. The head.	28
1.1. The mouthparts.	28
1.1.1. Mandibles.	38
1.1.2. Labrum.	38
1.1.3. Labium.	41
1.1.4. Maxillae.	42
1.2. Eyes.	42
1.3. Antennae.	43
2. The thorax.	44
3. The wings.	45
4. The legs.	45
5. The genitalia.	46
6. The larvae of <i>Chiasognathinae</i> .	46
CHAPTER IV	
Attempting a definition of the subfamily, the <i>Chiasognathinae</i> .	50
CHAPTER V	
Biogeography of the <i>Chiasognathinae</i> .	54
A - THE ANDES.	58
1. General presentation of the Andes.	58
1.1. The geology.	58
1.1.1. The present relief.	58
1.1.2. The geological formations and the genesis of the Andes.	60
1.2. The climate and the vegetation.	60
1.3. Phytogeographic provinces and biogeographic domains.	64

2. The <i>Chiasognathinae</i> : a biogeographical approach.	73
2.1. The spatial distribution of South America's <i>Chiasognathinae</i> ; the relationship with phytogeographic provinces, and the biogeographical regions.	74
2.2. The north-western region of South America: Venezuela, Colombia, Ecuador, Peru and Bolivia.	76
2.2.1. The high altitudes páramos.	77
2.2.2. The mountain rainforests.	80
2.2.2.1. The moist forests of the northern part: Venezuela, Colombia, Ecuador.	81
2.2.2.2. The forests of the southern part: Peru and Bolivia.	85
2.2.3. The semi-deciduous subtropical forests of the Andes piedmont.	95
2.3. The southern America region (south of Chile and Argentina).	95
2.3.1. Geographical and bioclimatic general survey.	95
2.3.2. The biotopes of the southern <i>Chiasognathinae</i> .	99
2.3.2.1. The evergreen sclerophyllous forest.	99
2.3.2.2. The deciduous <i>Nothofagus</i> forests.	100
2.3.2.3. The Araucarias forests.	102
2.3.2.4. The evergreen rainforest of Valdivia or the <i>teque</i> forest.	103
2.3.2.5. The <i>N. dombeyi</i> and <i>N. betuloides</i> evergreen forests.	116
2.3.3. Geonomy of the <i>Chiasognathinae</i> .	116
A - Chile.	116
B - Argentina.	118
C - Conclusions.	118
B - AUSTRALIA: Northern Queensland.	120
C - MESSEL.	121
D - PALEOGEOGRAPHY: GEOLOGICAL, CLIMATIC AND FLORISTIC EVOLUTIONS.	124
E - GENERAL CONCLUSIONS.	130
CHAPTER VI	
IDENTIFICATION KEYS.	136
CHAPTER VII	
MONOGRAPHY OF <i>CHIASOGNATHINAE</i> .	142
The types of the <i>Chiasognathinae</i> .	282
Abbreviations of the museums and individual collections.	284
Alphabetical index of names: 1 – genera and subgenera.	285
Alphabetical index of names: 2 – species and varieties.	286
Geographical index of cited names.	289
Glossary.	299
Glossary of vernacular names.	300
Bibliography.	304
Resumen.	314
Photo credits and Table of conversions.	315
Addenda.	316
Index.	322
Authors' biography.	324